

From boatanchors@theporch.com Fri May 31 00:21:40 1996
From: BRIDGERS@gonzo.ccl.org
Subject: RE: 390A Questions
Message-ID: <960530154555.2040c30a@gonzo.ccl.org>

Good afternoon, John!

Here are my 2 cents worth; am sure you'll hear from others:

1. Getting audio out -- Do yourself a favor and go to radio shack and purchase a mono-amplified speaker. The speaker and a set of alkaline batteries will cost about \$25. Also buy a mini-phone jack cord set that terminates in alligator clips (about \$2.95). Now connect that speaker system to terminal 14 on the back of the set, and you'll hear some great audio. Personally, I think it is worth the \$28, and a lot less expensive than the rebuild that Kleronimos offers...

2. Connecting to an antenna -- This is a little kluggee, but hey it is inexpensive. Note the BNC panel connector on the rear panel, that has on the other side a mini-BNC connection. Remove the connector and disconnect the mini-BNC from the IF strip that is suppose to be connected to it. Disconnect the mini-BNC connector on the antenna relay and now connect it to the just removed mini-BNC to BNC connector. Pass a BNC terminated coax through the hole left by the removed panel connector, connect it to the BNC side of the mini-BNC to BNC connector. And voila you now have a connection to the R-390A receiver; just connect the coax to an antenna and it should work fine. This arrangement does bypass the antenna relay system, but in my shack that is not a problem.

3. And one other thought: I have recently gotten bitten with the R-390 (not R-390A) bug, and have a serious case of R-390itis. While just a shade less selective than an R-390A, the R-390's sensitivity and stability are far ahead of the R-390A's I have. You may want to given them a try, though be careful less you get bitten as well!

73's

Tom Bridgers@leaders.ccl.org KE4RHH

From boatanchors@theporch.com Fri May 31 13:33:38 1996
From: pmills@cyberhouse.com (Phil Mills)
Subject: ? KWS-1 questions ?
Message-ID: <199605311606.LAA20204@ns.cyberhouse.com>

First the humorous part....anyone got a Collins antenna relay (410 0134 00) that they want to part with?

Now for the plausible....does the power supply for the KWS-1 have a serial number and, if so, where is it located? Is it expected to match the serial number of the KWS-1 itself?

Is there a source for that large style of cartridge fuse used in the power supply?

In the cabling from the back, there are a couple of leads for "key line interlock contacts" that are apparently used in parallel with the leads going to the antenna relay coil. Can anyone tell me what these are for/do?

Other than the usual BA activities like reforming electrolytics, is there anything I should be aware of/watch for in trying to bring one back out of hibernation?

thanks,
Phil
Phil Mills, AB5TH
pmills@cyberhouse.com
713-992-5762

From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: mflicinski@VNET.IBM.COM
Subject: ARC-5 MD-7 Modulator
Message-ID: <199605312039.PAA04153@uro.theporch.com>

I acquired an MD-7 modulator today... just missing a 1625 which I can easily obtain. Got the dyno with it too. It is in good condition with just some dust from sitting on a shelf for many years. I'm told it was bought new by the person who passed it to me and there are no mods. It even has a screw-on cap/cover on one of the connectors... inside that cover it's 1943 again!

Has anyone actually used the MD-7 with one of the ARC-5 transmitters on the air recently? I was thinking of lashing together a speech amp to allow the use of a Hi-Z mic instead of using a carbon mic. Plug-in, of course. No mods to the mod.

I have the schematic in the SCR274N/ARC5 maintenance manual
I also recently got from another BAer (you know who you are!).

Mike K2UXE
Austin, TX
mflicinski@vnet.ibm.com

From boatanchors@theporch.com Fri May 31 13:33:38 1996
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: B+ protection for BC-348 dynamotor
Message-ID: <9605311727.AA11708@syseng1.se.melpar.esys.com>

Boatanchorites,

Someone recently suggested installing a 1/8-amp fast-blo fuse in the BC-348 B+ line to prevent dynamotor damage if one of the screen bypass caps shorts. Here is a suggested means of implementation which is non-invasive to the radio:

1. Radio Shack sells a small, plastic in-line fuse holder for AGC-size fuses. Shorten the two leads to about 3" and install a spade lug on each.
2. Remove the existing lead from the B+ terminal on the dynamotor terminal block.
3. Connect one of the fuseholder leads to the B+ terminal.
4. Connect the other fuseholder lead to the lead removed from the terminal block by using a 6-32 screw and nut to attach the two spade lugs together.
5. Wrap the connection with a piece of electrical tape.
6. Install a 1/8-amp fast-blo (*NOT* slo-blo) fuse in the fuseholder. If you don't have a 1/8-amp handy, you *could* use a 1/4-amp fast-blo from Radio Shack (the smallest they sell) but the 1/8-amp size is definitely better protection in this particular application. You can order them from Hosfelt or a similar source, or check your local auto parts store.

Incidentally, on the BC-348-Q the B+ lead on the dynamotor terminal block has two wires, one of which feeds the plates and the other of which feeds the screens via pins 2 and 6 of the rear panel connector (which allows external muting if desired). I was tempted to install the fuse at the rear panel connector, but IMHO the dynamotor location is preferred as it protects against *ANY* B+ line fault. Since it's non-invasive and easily removed, and there's plenty of room for it inside the radio, I see no reason to install it elsewhere.

73,

Paul, K4MSG

* Paul H. Bock, Jr. * Principal Systems Engineer
(|_|) * E-Systems/FC Division * Telephone: (703) 560-5000 x2062
| |) * 7700 Arlington Blvd. * Internet: pbock@melpar.esys.com
 * Falls Church, VA 22046 * Mailstop: N204

"Management has the choice of growing the business or
decreasing the cost. The rush to do the latter is
really an admission of failure in the former."

Robert W. Lucky

From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: rdkeys@csemail.cropsci.ncsu.edu
Subject: BA/GB Net
Message-ID: <9605311824.AA101787@csemail.cropsci.ncsu.edu>

Although I have been a bit lax in the last few days due to burdensome
commitments and other assorted and sundry prevailing winds, I will make
an extra effort to be aboard tonight and saturday night for the BA/GB net.

QTR 0000/0100Z
QRG 7051khz

QTR 0200/0300/0400/0500/0600Z
QRG 3579R545khz

Hope a few of us can make it at the appointed hours. Bring along whatever
botteburner you can muster up, at whatever QRQ you may happen to want to run.
If 80M stays noisy, drop up to that shorter wave of 40 meters and keep on
burning holes in the ether. 7051khz is not too bad a QRG this time of year.

73/ZUT DE NA4G/Bob UP

From boatanchors@theporch.com Fri May 31 13:33:38 1996
From: Merv Schweigert <k9fd@htc.net>
Subject: bc-453
Message-ID: <9605311749.AA21899@ns.htc.net>

Boy talk about fast responses, sorry guys the bc453 went to a new
home to be preserved and not converted. Thanks for you concerns, I will
be listening on an already hacked one this winter tho. 73 de Merv K9FD

From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: AviDov@aol.com
Subject: Re: BOATANCHORS digest 689
Message-ID: <960531172920_207903424@emout08.mail.aol.com>

did the tornado wipe out this ba on the 27th or 28th? i dl all of the to
later screening and
noticed the omission.pls reply on the next ba or asap. tnx

From: bgraham@tecnet1.jcte.jcs.mil
Message-ID: <199605312139.QAA04684@uro.theporch.com>

True, I could parallel smaller caps and I will
if I can't find the "right" ones.
Still, it isn't as aesthetically pleasing.

<g>

Bill
N5LMX/DA1WG
bgraham@tecnet1.jcte.jcs.mil

From boatanchors@theporch.com Fri May 31 00:21:40 1996
From: Morris Odell <morriso@vifp.monash.edu.au>
Subject: Boatanchors in the movies
Message-ID: <199605310018.KAA07518@vifp.monash.edu.au>

Hi all,

Last night I was watching a rerun of the Simpsons with the kids. The episode was the one where the Simpson kids take a scholastic aptitude test which is sent to an institute in Ohio for processing. The institute has a sign which says "Deciding your future since 1925". Inside the test results are processed by a huge boatanchor computer with vacuum tubes pulsing away. They are drawn as large tubes with top caps and elaborate internals glowing blue (obviously thyratrons).

The machine choked on Bart Simpson's test result. The technician was a dodderly old man in a rocking chair and maintenance consisted of prodding the ailing beast with his walking stick while pleading "come on old girl, you can do it"

I felt quite at home...:-)

73

Morris

Morris Odell VK3DOC Melbourne, Australia
morriso@vifp.monash.edu.au
<http://www.vifp.monash.edu.au/CFM/staff/mo.html>

From boatanchors@theporch.com Fri May 31 00:21:40 1996
From: Jim Dillon <beadgal@ptialaska.net>
Subject: Book Deals Update: Moore Transmitters,etc.
Message-ID: <01BB4E68.3033FF60@juneau_37.dialups.ptialaska.net>

Hello All-

Fourty copies of Ray Moore's Transmitters arrived late this afternoon. I =
will send
them off first thing Friday morning. If you postmarked your order by May =
15, you should receive book by Tuesday June 4. Sorry for the delay. We =
on the Left Coast are spoiled by excellent mail service to the point =
that we lose
touch with how bad things are back East.
I will call Barry at ER Friday to find out what happened to second batch =
of
Heathkit. I think the ER folks took a vacation or maybe an extended =
Dayton sojourn.=20
Receivers should show up Tuesday, and I did order a second batch of
Transmitters for those who ordered later than 5/15 deadline. More on =
Moore
when more come ashore.
Thank you for your patience with Mr.Zip.....

Jim Dillon WL7CMQ
beadgal@ptialaska.net

From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: "Allan Fritsche" <fritsche@msn.com>
Subject: Case for a S-36
Message-ID: <UPMAIL03.199606010042160776@msn.com>

Thanks, Hank, Robert and Spencer for replying to my questions about the S-36A.

All, I have never seen one of these (?Jewels) and was really just groping
for any leads about the radio. I did find a mention of it in a 45 QST. The

picture was the same size as a postage stamp. Hi, but the Dachis book was neat in this respect. Best book for Halli's I've seen.

At any rate, I am a big wind bag when it comes to my so called promise to get everything looking like a 10. Crap, how in the heck would I know what the thing looked like before I was born. What I really meant was that I will work on it till it's functional and semi-original.

BTW, I used to work in a light sheet metal shop and still have contacts to make a steel case for this beast and Hank, once I get the unit in my possession may still do. Albeit, it will cost a fortune.

If I do, then I've got a SX-62 case for sell, Like new.

Oh. Lastly, If you have a AUTO-ZONE close to you, the engine paint department has a pretty good match for the HQ series. Its called cast Iron, something. Try it on a piece of scrap and compare. Dam, sounds like a commercial.

Good Nite Guys.

More to come on this adventure

Your Friend

Al

fritsche@msn.com

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From boatanchors@theporch.com Fri May 31 00:21:40 1996

From: "Allan Fritsche" <fritsche@msn.com>

Subject: case for a s-36A

Message-ID: <UPMAIL03.199605310151580753@msn.com>

Gang, I just bought a S-36A from Dexter Francis who I think used to be on the list and may still be. (Ben, did you ever finish the member list?). and it should get here in a couple of days.

BTW, Dex, the check was mailed today, 5-30.

At any rate, the unit is coming installed in a SX-62 case. Weight shipped per Dex at 82 pounds. My poor UPS guy was friendly at one time.

My questions for the group are:

1. It's installled in an SX-62 type case. Am I right in believing that it origanlly was rack mounted? i.e. Military style. from the Dachis book It looks like a rack mount.
2. If I don't like the looks of it in the SX-62 case, what options do I have?
3. Again, the Dachis books show it mounted in its own factory case, which are probably as scarce as turkey teeth. If its just a steel case with no rounded

parts I can fabricate or even better was it aluminum?

4. I'd like this one to be a 10 when done as I will keep, so any help on the case would be appreciated.

Electronically the radio is said to work as well as expected for the vintage.

Thanks in advance

Al Fritsche

fritsche@msn.com

From boatanchors@theporch.com Fri May 31 00:21:40 1996

From: Henry van Cleef <vancleef@bga.com>

Subject: Re: case for a s-36A

Message-ID: <199605310506.AAA27495@zoom.bga.com>

As Allan Fritsche said

>

>

>

> Gang, I just bought a S-36A.....

> At any rate, the unit is coming installed in a SX-62 case. Weight shipped

> per Dex at 82 pounds. My poor UPS guy was friendly at one time.

Yeah, the S-36A is one radio that makes it as "iron," or a

"boatanchor." When mine arrived, I had to wheel out a dolly to move

the box. It's almost as heavy as a Tek RM585A scope.

>

> My questions for the group are:

> 1. It's installled in an SX-62 type case. Am I right in beliving that it

> origanlly was rack mounted? i.e. Military style. from the Dachis book It looks

> like a rack mount.

The radio I have has the original case, black crackle paint and all, which cleaned up like new after a few hours work with ammonia and a toothbrush. I believe that the majority of S-36A's that ended up in civilian hands were post V-J day buildouts of parts that Hallicrafters had on hand. The power and output transformers and filter choke all have "6-45" clearly stenciled on them. My set has four screws under the S-meter for a military nameplate, but no marks on the panel paint to show that a nameplate was ever installed here. The top cover has four holes, probably to hold a printed-on plastic piece similar to the schematic on a BC-221, and the sides of the cabinet are punched for installation of carrying handles, but no marks indicating anything installed in these places, either.

The set is attached to the case by a bunch of hex-head self-tapping sheet metal screws on the bottom, four rack mount screws on the sides of the front panel, and a fifth similar screw at the center top holding the case to the panel. There are two large steel frames on either side

of the chassis to support the chassis if it is mounted by its panel to a rack, with no rear support, similar to an SX-28A, and an additional steel tie bar plate between these two side supports at the rear.

> 2. If I don't like the looks of it in the SX-62 case, what options do I have?

Strip and paint the case you have.

The original case is a "special," although the configuration is standard. What is special about it is that there are punched holes over the rectifier/audio out section, both top and bottom, and the two sides and rear have punched rectangles, for air circulation. The bottom holes seem a bit superfluous, because there are no holes in the chassis to allow air to rise. But the top holes do have airflow, and the set is enough of a hotbox that I'd want ventilation in the top cover.

> 3. Again, the Dachis books show it mounted in its own factory case, which are
> probably as scarce as turkey teeth. If its just a steel case with no rounded
> parts I can fabricate or even better was it aluminum?

The original is steel. It is square corners. The sides are braked into a "U" after punching, and braked over to form mounting lips in front. The bottom is a flat plate with the edges braked up, and the top is a "window" structure, similar edges, but with an opening and hinge for a top cover. The ledges for the cover to rest against are sheet, spot-welded to the top plate. The cover has a cutout for a perforated piece above the power supply, which is spot-welded in place, and three pieces of "L" channel spot-welded to the cover as reinforcements. The side piece is spot-welded to the top and bottom panel pieces on the outside. I'm not going to try to turn the thing on it's side, but I believe the bottom plate was louvered under the power supply area.

This isn't all the details, but will give you an idea of the construction. No specialty dies required----if you had access to a sheet metal shop with shears, a brake, a rotary-head punch-and-die set, and a spot welder capable of reaching 18 inches into the work (both throat and clearance), you could build one. There are several detail parts, so a complete drawing set, including assembly, would be about twenty or thirty sheets. I haven't miked the stock but it looks like about 1/32 or 3/64. I'd have to mike that and convert it to gauge, and the piece parts may be different gauges, although a quick look at the unit I have, which is sitting behind me as I look, appears to be the same stock for the pieces I can see.

> 4. I'd like this one to be a 10 when done as I will keep, so any help on the
> case would be appreciated.

What's a "10?" A new radio? Why?

When I bought my radio, it was the one filthiest specimen of electronics equipment I've ever seen, with a quarter inch of crud on the chassis, a good coating of grey-brown dirt all over the outside, and you could hardly read the markings. I disassembled the thing mechanically, and got to work. Getting the crud off the chassis without damaging the lettering was like restoring a 16th century oil painting. The front panel and the case went in the kitchen sink, got the soap and water treatment, a good ammonia wash, and an all-day soak in soap and water, followed by the ammonia-and-toothbrush treatment. This left the original paint clean as a whistle, on both the panel (not crackle, but embossed-in-the-metal alligator, like General Radio stuff) and the case. The silver in the engraved markings shines like new, with no paint needed. It's got a few chips in the case paint, and if you look closely at the panel, you can see the copper plating through the paint under a bright light.

Those blemishes are, so far as I am concerned, badges of honor. All of my electronic equipment works for a living, and wears its "blue collars" with pride. That includes the little rough marks that say "I've plied my trade for a long time." Performance of the set on Band 3 (81-145 Mhz) is nothing to write home about; what is significant about the radio is that it is a 1940 design built in '45 (51 years, folks) that does serious "high fidelity" receiving the commercial FM band today. I'm probably the only person in Texas right now who is listening to classical music on a radio designed and built before the current FM band was allocated. Those nine knobs, four ball-handle toggle switches, two dials, and S-meter are impressive, as is the fact that I've got the only "FM receiver" that has an AM detector for the band as well and a BFO for whistle-stopping against the carrier center. Why would I want a radio like this that didn't look as though it had been used?

>

> Electronically the radio is said to work as well as expected for the vintage.

>

I recall swapping notes with Dexter on this set last year. You will want to double-check, but I think he changed the FM detector de-emphasis filter from 113 microseconds to 75, as I did with mine, and may have tacked in the additional discriminator loads I am using to broaden the S-curve a bit.

--

Hank van Cleef vancleef@bga.com vancleef@tmn.com

From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: Guy Dragoo <gdrag@proedge.com>
Subject: Central Electronics MM-2 FT
Message-ID: <01BB4EFE.383B7120@ft241.computek.net>

Howdy from a wild and woolly Texas,
I am turning to the list for help. I have a terrible phobia that I am =
unable to cope with....I have a CE MM-2 Multiphase Analyzer sitting =
here. Shhh, it is watching me right now. That big eye following me =
around the room. You can't imagine the torment I am going thru, at =
nights I hear it calling to me..."bring me more Central Electronics =
friends and family, come to me".
Well, after listening to this for a while I am hoping there is a =
listmember that is interested in Central Electronics and can relieve me =
of this haunting chant. I am tolerated by my XYL with Collins stuff =
(one gray box looks like another as well as a "don't ask...don't tell" =
policy), but I have a feeling if alot of green starts showing up I'll be =
in the doghouse for sure.
The unit is in good shape. The front panel has no visible blemishes =
and the case has a few small scratches but over all is also in good =
shape. The housing around the display tube is missing some (bakelite?) =
spacers but otherwise appears complete and original. The unit also =
lights up and I have a copy of the manual. I also have an extra =
display toob for this beast.
Sooo, there it is. What do I want for this beast of burden? I would =
prefer trade (partial or complete) on some piece of Collins (or <gasp> =
solidslate Ten Tec) equipment, parts or supplies. I am specifically =
looking for 75S (BTW 32S also works) cabinets (2) right now, so they are =
at the top of my parts list as well as newer Ten Tec items. Bring on =
the offers, I can't live with this any more...I am only human.

73

Guy Dragoo AC5HL

PS sorry bout format...unless some listmember knows how to set margins =
in MS Exchange I'm sunk and my message will continue to aggravate those =
bothered by a different format.

From boatanchors@theporch.com Fri May 31 00:21:40 1996
From: Morris Odell <morriso@vifp.monash.edu.au>
Subject: Re: Cleaning ceramic sockets
Message-ID: <199605302219.IAA06091@vifp.monash.edu.au>

Hi all,

As Hank said

> Getting the "black" off the silver isn't quite so easy. Barry Ornitz

> has posted a method for removing sulfates, etc. Place the
> silver (or silver-plated) item in contact with some aluminum in a table
> salt solution (a teaspoon of salt in a gallon of water is, I think,
> plenty, to make a good electrolyte) and heat to about 85C (180F) The
> aluminum will get black, which is sulfates jumping off the silver onto
> the aluminum.

This was the basis of a scam/money making scheme which succeeded greatly if the experience of my wife & her friends is any guide. I came home to be shown a "miracle" tarnish remover she had bought from a street vendor for only \$10. It turned out to be a square foot of sheet aluminium nicely wrapped with instructions. The instructions call for immersing the sheet in a weak solution of sodium carbonate (washing soda or pool "dry alkali") at room temperature and touching a tarnished silver object to it. Voila! the tarnish disappears! They all swear by it and it's impossible for me to convince them that the same thing could have been achieved for free using the contents of the junk box....

73

Morris Odell VK3DOC Melbourne, Australia
morriso@vifp.monash.edu.au
<http://www.vifp.monash.edu.au/CFM/staff/mo.html>

From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: RNickels@smtpmail.micro.honeywell.com (Nickels, Bob)
Subject: Clegg Venus
Message-ID: <1996May31.133500.1650.121319@smtpmail.micro.honeywell.com>

Anyone have experience with a Clegg Venus 6 meter ssb rig? I've got two, and there are differences in the driver stage (one has had neutralization added). Was this a factory mod?

I'm having trouble getting any drive to the final, except for self-oscillation. Would like to cut to the chase if anyone's been there and done it before...thanks.

73, Bob KE0T
rnickels@micro.honeywell.com

From boatanchors@theporch.com Fri May 31 00:21:40 1996
From: "Greg Anders" <anders@autopsy.corp.sgi.com>

Subject: COn tact Info for Digi-Key
Message-ID: <9605301241.ZM3059@autopsy.corp.sgi.com>

I'm looking for an 800 number for Digi-Key. I've been told they handle ceramic IF filters and I have a hankerin for some... Anyone know their number???

Thanks,

From boatanchors@theporch.com Fri May 31 00:21:40 1996
From: Scott Townley <nx7u@primenet.com>
Subject: Re: COn tact Info for Digi-Key
Message-ID: <199605302117.0AA06237@primenet.com>

At 14:44 30.05.1996 -0500, Greg Anders wrote:

>
> I'm looking for an 800 number for Digi-Key. I've been told they
> handle ceramic IF filters and I have a hankerin for some... Anyone know
> their number???
>
> Thanks,
>
>

Amazingly enough, it's 1-800-DIGIKEY
They also have a WWW page at <http://www.digikey.com>
although I've never tried their page.
Scott Townley "When the Going gets Weird,
nx7u@primenet.com the Weird turn Pro"
-Dr. Gonzo, Sports Editor

From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: Deltron Power Supplies
Message-ID: <9605311807.AA12446@syseng1.se.melpar.esys.com>

Fair Radio is selling the Deltron Q28-3.1 supply, which I have found works very well with a dynamotor-powered BC-348-Q. Fair's price for these supplies is \$24 each. The supply is current-limited to 8 amps.

I contacted Deltron and they sent me a data sheet, instruction sheet, and schematic on the "Q" series of linear supplies (which

date from the early '80s). Since the supply tends to run a little hot, I recommend either outboard heat sinks or a small blower motor (I use both). I have information on these items as well, plus a recommended chassis mounting scheme for the supply with accessories (switch, lamp, blower) to make an integrated package (sketch).

Anyone wishing copies of this information need only send me a sel-addressed, stamped *LEGAL* size envelope and I will send the information (four sheets) by return mail.

Paul Bock, K4MSG
38661 Pheasant Hill Lane
Hamilton, VA 22068

73,

Paul, K4MSG

From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: "Barry L. Ornitz" <u856010@eastman.com>
Subject: Drake Twins Questions
Message-ID: <Pine.ULT.3.91.960531144601.26675C-1000000@dua150.kpt.emn.com>

I cannot remember the model number but Drake did make an external frequency synthesizer that replaced the band-select crystals in the 4-Line. Basically all that is needed is a synthesizer that produces frequencies 11.1 MHz higher than the desired lower band edge. Ham Radio Magazine had one or two articles in the 1970's on constructing a similar unit.

There are two caveats, however, to using such a synthesizer. The first is that any synthesizer produces spurious signals in addition to the desired signal - often spaced at multiples of the synthesizer reference frequency away from the output frequency. Unless these spurs are at a low enough amplitude, they can cause the transmitter and receiver to send and receive signals at additional unwanted frequencies besides the desired frequencies. For example in one of the HRM articles, the synthesizer reference was 100 kHz. If your receiver was tuned to 10.1 MHz listening for a weak signal, the normally 20 dB over S9 signal from WWV at 10.0 MHz might simultaneously be heard as a S4 or S5 signal. Thus if you want to keep the excellent performance of the Drake receivers with respect to strong signal rejection, you should avoid these synthesizers and stick with the crystals.

The second issue concerns spurious signals produced by the transmitter.

If you read the Drake T-4X series manual carefully, you will probably see that certain frequencies besides the 5 to 6 MHz range should be avoided. This is because certain combinations of frequencies could produce spurious signals or harmonics that could be transmitted at levels exceeding the FCC spectral purity limits. Many of these frequency limitations could be alleviated by the judicious choice of the band select crystal. In many cases, this meant the band to be added might not start at multiples of 500 kHz.

It is tempting to want to use a synthesizer such as this to minimize the cost of crystals for each band. However, unless you can insure the spectral purity of the transmitter, and you are willing to sacrifice much of the ultimate performance of the receiver, I would avoid them. They are useful for casual listening on the SWBC bands, but not for much else. I would rather spend my money on an R-390A for listening outside the ham bands than buy such a synthesizer.

Band crystals for the Drakes can be made by almost any crystal manufacturer. Check the proper Drake manuals for crystal frequencies and specifications (series or parallel resonance, and capacitance if parallel resonant). Different Drake rigs used different crystal types so check carefully to be sure.

[As a side note, I have ordered many crystals from JAN Crystals over the years - mainly because they were quick and inexpensive. But I have never gotten a crystal from them yet that was within specifications. Likewise I have never gotten a crystal from International Crystals that did not exceed its rated frequency accuracy by at least 100%. I initially ordered crystals from JAN for my R-4A to cover the full 26 to 30 MHz range for a 144 MHz converter. These were 10 to 15 kHz off. I later ordered crystals from R. L. Drake that were within 1 kHz. It is nice to be able to change bands without having the dial calibration slip more than 1 kHz!]

As for 160 meter operation, the Drake Twins are fine performers there!

73, Barry L. Ornitz WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Fri May 31 20:14:29 1996

From: "Barry L. Ornitz" <u856010@eastman.com>

Subject: Re: Drake Twins Questions

Message-ID: <Pine.ULT.3.91.960531181630.509A-1000000@dua150.kpt.emn.com>

On Fri, 31 May 1996, Ted (KG5ES) sent me the following email in response to my reply to his request (via Jack). I thought my return message might contain a little interest to the Boatanchor group too.

> I thought of another route to avoid the synthesizer probs...a simple

> inexpensive 23 position switch. The new WARC bands are all within
> 500Kc multiples so that's only 6 xtals (assuming one xmit and one
> rcv). So that would be reasonable !

Remember the receiver already has provisions for 10 additional 500 kHz segments and the transmitter has provisions for 4 extra. 160 meters will take one of each. Also remember the stock radio only came with crystals for 28.5 to 29 MHz for 10 meters. Most SSB activity is now below 28.5, and if you want to do Boatanchor AM, that is above 29 MHz.

> Well, I think I look around for the Drake twins. Not only would the
> cost be about 1/3 of a new rig, but it could keep the shack warm in
> the winter (ha ha)!...besides, being reminded of the "old days" is
> worth the thrill...!

Remember too that there are significant differences between the "C" version and the earlier versions in the receiver. The "C" receiver uses crystal filters for each bandwidth and CW and AM filters were optional. You may not find these filters easily. While the "C" versions is the most modern, it also has the most solid-state....which is both good and bad. The earlier receivers had poorer skirt selectivity but better performance with strong local signals. DX'ers tend to go for the "C" line with all the various Sherwood modifications for CW. For casual operating, you can save considerable money looking for the R-4, R-4A, or R-4B. Transmitter performance difference between the models is not significant. I still have my original T-4X and R-4A from years ago, and I have never felt the desire to upgrade to later models.

73, Barry L. Ornitz WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Fri May 31 13:33:38 1996
From: List Admin/Owner BoatAnchor Mail List <listown@jackatak.theporch.com>
Subject: Drake twins: 4-C Line
Message-ID: <9605310715.aa03024@jackatak.theporch.com>

Hi Gang-

I received the following yesterday, and am unable to help Ted with any info. My only exposure to Drake Line rigs was during the CQWW SSB Contest in 1979 (we set a new World Record at VP2KC using Drake line exciters/receivers and a variety of amplifiers... seemed like real good gear...)

Perhaps some of you can help Ted, and while you are at it, "cc" the list so we can all learn a bit more... ;^)
(Ted is not a subscriber, but reads the list second hand via a

"friend" -- so answer him direct...and cc the list)

-----8><-----snip here-----

Message-Id: <199605301548.JAA13004@NMSU.Edu>
From: TCS <thsteven@nmsu.edu>
Organization: N.M. State University
From boatanchors@theporch.com Fri May 31 13:33:38 1996
Subject: Drake twins: 4-C Line

I am trying to gain a little info on the Drake 4C line (T-4C and R-4C). I seem to recall, when I was a young ham, that there was some kind of accessory that allowed the pair to be used on any 500Kc segment in the 1.8 to 30Mc range. Do you or someone you might know happen to know if my memory serves me correctly and what this piece of equip is? Also, do you know if the "twins" will operate on 160m?

tnx es 73's
de KG5ES, Ted

From boatanchors@theporch.com Fri May 31 13:33:38 1996
From: roecker.greg@ist.vf.mmc.com
Subject: RE: Drake twins: 4-C Line
Message-ID: <Chameleon.960531084808.greg@roeckerpc.acc.atl.mmc.com>

Message-Id: <199605301548.JAA13004@NMSU.Edu>
From: TCS <thsteven@nmsu.edu>
Organization: N.M. State University
From boatanchors@theporch.com Fri May 31 13:33:38 1996
Subject: Drake twins: 4-C Line

I am trying to gain a little info on the Drake 4C line (T-4C and R-4C). I seem to recall, when I was a young ham, that there was some kind of accessory that allowed the pair to be used on any 500Kc segment in the 1.8 to 30Mc range. Also, do you know if the "twins" will operate on 160m?

tnx es 73's
de KG5ES, Ted

-----End of Original Message-----

Hi Ted,

I've had my C-Line for several years, and really enjoy it. The

rigs are capable of operation on any 500Kc segment from 1.8 to 30 Mc (with some exception around 5 Mc or so). The only limitation is that you need the correct crystal for each band segment you wish to operate on. Mine is crystaled for 75 through 10. I intend to get the additional band crystals (WARC plus 160) this summer. And yes, the C-Line will operate on on 160.

Hope this helps . . . if you need any more info on them, I'll be glad to help you out . . .

73 from Atlanta,

Greg / N40SJ
roecker.greg@ist.vf.mmc.com

Greg Roecker
E-mail: roecker.greg@ist.vf.mmc.com
From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: afpgreg@state.me.us (Paul V. Gregory)
Subject: Re: Drake twins: 4-C Line
Message-ID: <199605311309.JAA22234@gatekeeper.ddp.state.me.us>

>I am trying to gain a little info on the Drake 4C line (T-4C and
>R-4C). I seem to recall, when I was a young ham, that there was some
>kind of accessory that allowed the pair to be used on any 500Kc
>segment in the 1.8 to 30Mc range.

Ahoy,

I was a crystal synethizer with Drake nomenclature "FS-4." Pretty rare accessory to my knowledge.

>Also, do you know if the "twins" will operate on 160m?

Yes.

73 de KB1AOC/Paul

From boatanchors@theporch.com Fri May 31 13:33:38 1996
From: SFCN03A@prodigy.com (DON FLENNER)
Subject: DX60B Switch
Message-ID: <199605311106.HAA17440@mime4.prodigy.com>

Hi BA Folks,

I am in need of a replacement Function switch for my DX60B. If anyone has a parts rig I could get the switch out of or I'll take a whole DX60B parts rig as long as it has the switch in it and other goodies I could use for spares.

Also sometime back info was put out on Heath Parts address/phone number. Could someone pass that along. A couple of questions, are they still selling parts? Anyone have the part number for the function switch of a DX60B? I know its a long shot to try to order it but you never know.

All help is appreciated.

73 de Don KB4SA
Kennesaw, Georgia
SFCN03A@prodigy.com

From boatanchors@theporch.com Fri May 31 13:33:38 1996
From: "Mark Glusker" <glusk@mechcad3.engr.sgi.com>
Subject: Flotsam Update
Message-ID: <9605310852.ZM29694@mechcad3.engr.sgi.com>

The Signal Shifter, ARC-1 and HP cabinet have all found new and very deserving homes. The GE panel meters continue to serve well as paperweights, unless someone has a better use for them.

Thanks to all who responded.

Mark Glusker, glusk@sgi.com

From boatanchors@theporch.com Fri May 31 13:33:38 1996
From: "Edward J. Zeranski" <ejz@nosc.mil>
Subject: Foam packing for BAs
Message-ID: <2.2.32.19960531165032.006f1f40@marlin.nosc.mil>

We have used the foam-pak method mentioned by Walt Novinger for shipping electronic equipment for a couple of years and it is great. The equipment gets put in a plastic bag then foam is shot into the shipping container. The only downside, a minor one really, is that unless the bag is carefully wrapped and taped the foam will get into hollow areas which can make unpacking interesting. There have been a few times when the triple wall box was trashed but the hardware arrived just fine.

Ed Zeranski ejz@marlin.nosc.mil, work

ezeran@cris.com home
Wooden Boats, Tube Receivers, Rusty Old Trucks, The Good Stuff!

This is a private opinion or statement and is nobody's fault but mine. No person, employer, or govt. should try to take credit for it!

From boatanchors@theporch.com Fri May 31 13:33:38 1996
From: Walt Novinger <waltn@earthlink.net>
Subject: Re: Foam packing for BAs
Message-ID: <2.2.32.19960531171211.006a3b6c@earthlink.net>

At 11:50 AM 5/31/96 -0500, you wrote:

> We have used the foam-pak method mentioned by Walt Novinger for
>shipping electronic equipment for a couple of years and it is great. The
>equipment gets put in a plastic bag then foam is shot into the shipping
>container. The only downside, a minor one really, is that unless the bag is
>carefully wrapped and taped the foam will get into hollow areas which can
>make unpacking interesting. There have been a few times when the triple wall
>

The method used by UPS is slightly different. The foam is injected into plastic bags that are extruded by a machine in set lengths. These bags are then quickly placed into the box, where they expand to fill the space. While the bottom layer is still expanding, the item is placed on them. Additional bags are then placed around and on top of the item. Because the "goop" is totally encased in the plastic, there is no chance of it getting inside the equipment (unless the bag breaks while expansion is taking place, of course). The result is a bunch of custom-fit "pillows" that completely encase the item being shipped.

Walt

=====

Walt Novinger	Real Radios Keep You Warm At Night!
Collector of hollowstate communications receivers and test equipment	
waltn@earthlink.net	wnovinger@shl.com CI\$: 73340,2015

From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: "Sandy, W5TVW" <70401.134@CompuServe.COM>
Subject: Re: Foam packing for BAs
Message-ID: <960601000426_70401.134_IHD108-1@CompuServe.COM>

I'd recommend this method highly on "cannot replace" items! I have shipped a lot of stuff when I was working for a marine electronics company and lots on my own. I generally like to use plastic bags/bubble wrap surrounded

by styrofoam 'peanuts'. Two things to watch out for: 1.) Put some smaller cardboard

boxes or 'battens' from the gear to the wall of the box to keep the gear "centered".

This will tend to keep the 'peanuts' from migrating to one side. Pack the box TIGHT!

Loose peanuts don't do any padding! Use NEW boxes, if at all possible! USE DOUBLE WALL boxes on heavy stuff. I've found if you use an old 'beat up' box, the shipper can bounce it around and it's hard for the recipient to tell if it's been

roughly handled. If a NEW box is punctured or dropped, it's usually EASY to tell! Avoid packing heavy or odd accessories like loudspeakers, power units etc. in the same box as say a receiver. It is surely going to damage the receiver!

It is worth the extra cost to ship these kinds of things seperately.

If you can't or don't know how to do proper packing, by all means use the "foam filler" method. You will have less grief and the recipient of the package will appreciate it, even if he has to pay for the extra shipping costs!

73,

Sandy, W5TVW

Boat Anchors collected, restored, modified, traded and used!

From boatanchors@theporch.com Fri May 31 00:21:40 1996

From: Bill Moore <bill_moore@mevatec.com>

Subject: FS: Lots of old electronic stuff

Message-ID: <960530.234812@mevatec.com>

Subject:

Time:11:06

OFFICE MEMO

FS: Lots of old electronic stuff

Date:5/30/96

Here is the most recent list. I need to get rid of this stuff so dont be = afraid to make an offer. You can call at 205 880 1207 for further info or email me at work bill_moore@mevatec.com. Trades for Pilot Items are = always welcome. Thanks

1. Mini Sony reel to reel tape recorder tc-123 \$15
2. Book-"Hyper and Ultra-High Frequency Engineering" by Sarbacher and Edson 1943 \$5
3. RA DA instruction sheet for 1922 Westinghouse, Full color reprint \$5 pp
4. ARRL "A Course in Radio Fundamentals" 1960 \$6
5. Telefunken Sams for Verdi, Aida, Elite, and Operette 6 \$3 ea includes ship.
6. ARRL "Hints and Kinks for the Radio Amatuer" \$6
7. Zenith Transoceanic 7G605 service data \$4 inclues ship.
8. Radio Design Magazines, 1928, 1930 and 31 Official Organ of the Pilot

- radio company \$7 each
9. Jackson Mutual conductance tube tester #648. Has several books plus roll chart, nice condition and working \$35
 10. Motorola x25w transistor, good condition \$18
 11. 1974 Lafayette catalog \$5
 12. Wilcox-Gay and Philco Recordio Blank Records \$2 ea or \$10 dollars for all(11)
 13. Allied 1970 catalog \$5
 14. Nobatron DC power supply 18-36 VDC 1.5 amp \$15
 15. Sola Power conditioner. 1.25 amp \$10 ea
 16. Spectra Guitar amplifier, made by Dean Markley, complete with tubes \$95
 17. Early RCA Oscilligraph(scope) Its complete and early or mid 40s \$25
 18. Bogen Power amp model cha-33 with phono built into cage \$25
 19. Early Meissner FM tuner in nice wood case \$25
 20. NRI RC Tester model 112 \$20
 21. Telefunken Concerto, large german table model. The row of small tone = control pushbuttons is missing, \$95
 22. Zenith Royal 790 "Super Navigator" \$50
 23. AK 165 Cathedral grill cloth. This is the original grill cloth on a = hard cardboard backing. very nice condiion \$18
 24. Western Electric Telephone Amp, portable unit in a wood case, model 100f. Nice condition \$35
 25. NOS Power stat. model 2368-2. These variacs are double ganged and can handle 9 amps each...\$30 ea
 26. Old style original leather handle. Good condition, perfect for that = old portable to restore the look \$10

From boatanchors@theporch.com Fri May 31 13:33:38 1996
From: douga@rosevax.rosemount.com (Doug Arntson)
Subject: FS: Hammurland HQ145X
Message-ID: <9605311303.AA04373@warthog.frco.com>

For Sale:

Hammarlund HQ145X

- Has working clock
- Original knobs
- Condx 8 (scale 1-10), minor scratches on case, front panel nice

- Works, but probably in need of alignment/calibration
- Manual copy
- \$150 local pickup (Minneapolis), \$175 shipped lower 48

Doug
WB0HRX
douga@rosemount.com

From boatanchors@theporch.com Fri May 31 00:21:40 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Fwd: Johnson 6N2 free
Message-ID: <76789.ddillman@igc.apc.org>

NOTE The message below is a re-post from rec.radio.swap. All replies must go to the person making the post, not me.

----- Forwarded message begins here -----

From: Doug Braun <dbraun@scdt.intel.com>
Newsgroups: usenet.rec.radio.swap
From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: robert fowle <hammarlund@voyager.net>
Subject: fwd: Wanted, EF Johnson desk kilowatt
Message-ID: <199605312139.RAA02547@vixa.voyager.net>

posting this for a friend, who does not have net access.

respond to: LEE HARRIS
847-439-4700 OFFICE
847-726-1660 HOME

Lee wants to find a Johnsonsone desk kilowatt in mint or near mint condition for useage,
not for sitting collecting dust....he is also looking for the same condition in a Ranger, Valiant (1 or 2 ?)..if you have or know somebody who has these items for sale,
please pass this info along...

thank you.

=====]-[->

Robert Fowle KC8DBC
The HAMMARLUND Historian

Ph. voice or fax 517-789-6721

1215 Winifred

Jackson, Mich. 49202-1946

E-mail at: hammarlund@vixa.voyager.net

HAMMARLUND LITERATURE WANTED

WANTED: MANUALS FOR ANY MAKE RADIO EQUIPMENT

=====]-[->

From boatanchors@theporch.com Fri May 31 00:21:40 1996

From: Sandra L Knepper <slkst29+@pitt.edu>

Subject: Gas in Tubes

Message-ID: <Pine.3.89.9605301827.A27637-0100000@unixs5.cis.pitt.edu>

Tube manufactuers fire the getter that has a chemical similar to manganese on this plate. This is done using high voltage passed through the glass. The silver appearance on the inside of the glass are the remains that are deposited after firing the getter. If the tube has that silver deposit the tube has a hard vacuum which is a good test of the tubes condition. If you apply a higher than normal filament voltage, (tube rejuvenators do this), you may be able to restore the tube if the getter still has a little of the material left. Otherwise you are restoring the filament by knocking a bit of the build up on the thoriated filament.

Dave, W3BJZ

Publisher of the monthly Collins Journal

From boatanchors@theporch.com Fri May 31 20:14:29 1996

From: "Barry L. Ornitz" <u856010@eastman.com>

Subject: Re: Gas in Tubes (actually getters)

Message-ID: <Pine.ULT.3.91.960531193804.509C-1000000@dua150.kpt.emn.com>

On Fri, 31 May 1996, Dave Knepper (W3BJZ) wrote:

> Tube manufactuers fire the getter that has a chemical similar to
> manganese on this plate. This is done using high voltage passed through
> the glass.

I'll be the curmudgeon today. [Jack normally is, but I suspect the recent outage has made him far too civil. I hope he returns to normal soon!] :-)

Getters are chosen from very reactive metals. Magnesium (not manganese) and calcium were used in some early tubes but most modern getters are based on barium. It is flashed on the inside envelope tube by heating its

holder with an induction heater. This is generally done after the tube is sealed. You do not want the getter on any of the tube electrodes, only on the glass where its highly reactive surface can chemically react with residual oxygen and where its surface can adsorb poorly reactive gases like nitrogen or non-reactive gases like argon. Materials like potassium and sodium (and to some extent calcium) are not used because of their significant vapor pressure.

> The silver appearance on the inside of the glass are the remains
> that are deposited after firing the getter. If the tube has that silver
> deposit the tube has a hard vacuum which is a good test of the tubes
> condition.

If the tube is only moderately gassy, the getter may still appear shiny. If it is uniformly white, you KNOW the tube is completely shot! 866's and 872's that are all silvery inside contains lots of gas! :-)

> If you apply a higher than normal filament voltage, (tube
> rejuvenators do this), you may be able to restore the tube if the getter
> still has a little of the material left. Otherwise you are restoring the
> filament by knocking a bit of the build up on the thoriated filament.

Heating the tube's filament is unlikely to do much to the getter at all. It will heat the tube elements which might have adsorbed gas on them; if the getter is still good, it might capture most of the dislodged gas molecules. Higher filament voltage increases the cathode emission (low emission is the common cause of a decline in tube performance with use). Of course, it also shortens the tube's life - but if the tube already has low emission, what do you have to lose?

Thoriated tungsten filaments are used only in large transmitting tubes. They are virtually never found in receiving tubes. Running these filaments on elevated voltage (without other electrode voltages) for a period of time can bring dissolved thorium oxide to the surface of the filament, thereby increasing emission. There is a limit to the number of times this can be done, of course, but some of these tubes can be operated with elevated filament voltage after all the thoria is depleted.

73, Barry L. Ornitz WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: jcreid@CCGATE.HAC.COM
Subject: Good memory, it's just short
Message-ID: <9604318335.AA833566197@CCGATE.HAC.COM>

Gang,

I saw an interesting radio at a swapmeet last weekend but for the life of me, I can't remember the complete model number. It was a BC-6xx. The unit was more vertical than horizontal and was made under contract by Delco in Kokomo, IN. It had a row of silver knobs/push buttons staggered vertically along the right side. A tuning dial was along the bottom with some other controls. It looked like it slid into some kind of rack with the mating connector along the bottom. The guy wanted \$20 for it and had I not spent the rest of my money on other stuff, I would've snagged it just for fun. Can anyone tell me what it was and did I pass up a good deal or no?

BTW, I'll be offline for the next 3 weeks while we "vacation" in Illinois/Wisconsin. I should be back here by the 24th. Take care.

-Jim N6SVS
jcreid@ccgate.hac.com

From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: Re: Good memory, it's just short
Message-ID: <Pine.ULT.3.91.960531150006.21400A-1000000@admin.aurora.edu>

On Fri, 31 May 1996 jcreid@ccgate.hac.com wrote:

> Gang,
> I saw an interesting radio at a swapmeet last weekend but for the life of me,
> I can't remember the complete model number. It was a BC-6xx. The unit was more
> vertical than horizontal and was made under contract by Delco in Kokomo, IN. It
> had a row of silver knobs/push buttons staggered vertically along the right
> side.....

Sounds like what you saw was a BC-603, which is a 20-27 MHz (roughly) FM tank receiver. The matching xmtr is the BC-604. Pretty broad IF's, but a neat rcvr.

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL

From boatanchors@theporch.com Fri May 31 13:33:38 1996
From: "Thomas L. Dawson" <74745.324@CompuServe.COM>
Subject: GR for sale
Message-ID: <960531133508_74745.324_HHL68-2@CompuServe.COM>

Gang,

GR 1602 B Admittance bridge for sale including the capacitor and the adjustable stub as well as a 50 ohm termination and two double shielded cables with 874 connectors on one end and N's on the other. The bridge comes in the wooden box. The unit works fine and is great fun to use but right now I need the cash more than the bridge.

If you know what it is, you know what its worth.

Regards, Tom

From boatanchors@theporch.com Fri May 31 13:33:38 1996
From: Henry van Cleef <vancleef@bga.com>
Subject: Re: Grid Dip Meter Advice Needed
Message-ID: <199605310543.AAA01234@zoom.bga.com>

As Jan Skirrow said

>

> Hi Gang ...

>

> I have been trying to find a nice good quality BoatAnchor one of these for
> some time, with no luck so far. Maybe this weekend at Seaside????

>

> Anyway, should I stick to my search, or pop for one of the sand state models
> such as the MFJ 201 or 203? My dilemma, but any comments welcome.

>

Well, it depends on what you are looking for in terms of a "user" item. The three dips I have all popped out of the woodwork at Belton, at different times, as did the RX bridge. Grid dips are like foxes---they are suddenly sitting there, looking at you, and if you look around, they've vanished. I'm told that if you sprinkle a bit of salt on a grid dip's tail, it can't get away.

Since I haven't used an MFJ dip, I can't comment, other than to note that a FET does just as well as a toob in a dip---as long as the gate and drain are connected together operating in wavemeter mode. False dips are a pain in the neck when using a dip, and I'd want to try out any unknown dip for false dips. The Millen and Measurements units are superb in this dept., and while the Eico is not quite as good, I've never had a problem confusing a real dip with an Eico for a false one. I recall trying to use some other dips that were like watching a motorcycle on a corduroy road when you tuned them, and think that Heath dips had this problem---although they may have been related to

construction. The Millen dip is full of little construction details that prevent false dips, and the Megacycle Meter uses clockwork technology and a bunch of details for the same reason. If you want to improve your ability to issue a nonstop stream of cuss words without repeating yourself, just try doing useful work with a dip that is loaded with false dips. The meter response should be approximately an half-ellipse as you tune across the range---fairly sharp dropoff at the ends of the band, but coming right up to a fairly flat level in between.

The Millen dips and the Megacycle Meter are both "collector items" and quite expensive----a new unit might be well worth considering for the incremental cost. The Eicos I have seen have been much less expensive, and have the advantage of covering down to LF with the standard coil set. The Millen and Megacycle Meter start above the 160 meter band and go into UHF. Make sure you get ALL the coils with a used dip. The little U-link "coil" used for the top band seems to be the one that vanishes.

--

Hank van Cleef vancleef@bga.com vancleef@tmn.com

From boatanchors@theporch.com Fri May 31 13:33:38 1996
From: garland@PHYAS1.MPS.OHIO-STATE.EDU (James C. Garland)
Subject: Re: Grid Dip Meter Advice Needed
Message-ID: <199605311115.HAA29007@photon.magnus.acs.ohio-state.edu>

>>The Millen dips and the Megacycle Meter are both "collector items" and
>quite expensive----a new unit might be well worth considering for the
>incremental cost. The Eicos I have seen have been much less expensive,
>and have the advantage of covering down to LF with the standard coil
>set. The Millen and Megacycle Meter start above the 160 meter band and
>go into UHF. Make sure you get ALL the coils with a used dip. The
>little U-link "coil" used for the top band seems to be the one that
>vanishes.

>

>--

>*****
>Hank van Cleef vancleef@bga.com vancleef@tmn.com
>*****

>

>

I'm wondering if anybody out there has the same dip meter I've got? Mine is an Eddystone, which I bought new in England in 1969 and consider one of my

prized possessions. It uses an MPF-102 JFET and is powered by a 9V battery. It comes in a custom-fitted wooden case with brass hinges and dovetailed joints, and uses an anti-backlash gear mechanism for tuning. It has a built-in 1kHz modulator, and a headphone jack for using as a wavemeter-type signal monitor. I don't use it much anymore, preferring instead my Autek RF-1 analyst, but could never bear to part with it. I've never seen another one, anywhere.

73,
Jim W8ZR

From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: stever@cybercomm.net (Stephan Rashkin)
Subject: Heath DX60 knobs (small knobs)
Message-ID: <199606010019.UAA11168@raven.cybercomm.net>

I am looking for the five original small knobs for the Heath DX60..If anyone has them please E-mail me with what you would like for them...

Thanks 73,

Steve, WA2NHZ

Steve Rashkin, WA2NHZ
Howell, New Jersey

E-mail: stever@raven.cybercom.com

From boatanchors@theporch.com Fri May 31 00:21:40 1996
From: John Wieder <jwieder@gunnison.com>
Subject: Heath SA2040
Message-ID: <199605301759.LAA14767@gunnison.com>

To the group: I have an opportunity to pick up the above from a local ham. Can anyone tell me what the going price is on the SA2040 tuner? Is it a pretty reliable unit, etc. It appears in good condition, etc. Thanks in advance for your help.

John WA0JYJ jwieder@gunnison.com

From boatanchors@theporch.com Fri May 31 00:21:40 1996
From: Chuck Penson <penon@sci.mus.mn.us>
Subject: Re: Heath SA2040
Message-ID: <31AE03AF.5D83@sci.mus.mn.us>

John Wieder wrote:

> Can anyone tell me what the going price is on the SA2040 tuner? Is it a
> pretty reliable unit, etc.

I opinionion is that a 2040 could go for \$75 to \$100. It is a good tuner.
The only downside is that it does not cover 160 meters. For 160 you need
the SA2060. Preferably the 2060A--more like \$150.

--

Chuck Penson
Education Division
Science Museum of Minnesota

penon@sci.mus.mn.us
612.221.4510 voice
612.224.5092 fax
<http://comped.sci.mus.mn.us>

Standard Disclaimer: The opinions expressed are etc. etc. ...

"Nothing is too wonderful to be true" -- Michael Faraday

From boatanchors@theporch.com Fri May 31 13:33:38 1996
From: "Thomas L. Dawson" <74745.324@CompuServe.COM>
Subject: Heath SB-500 manual need
Message-ID: <960531115802_74745.324_HHL29-1@CompuServe.COM>

Need a manual for an HB-500.

Also for sale I have an SB-301 works but has a big scratch on the front
panel; Also SB-401 for parts or restoration (LMO was bad) and an SB-610 scope
that works but needs the rubber feet.

Regards, Tom

WB3AKD

From boatanchors@theporch.com Fri May 31 00:21:40 1996
Subject: Johnson 6N2 free

I have a Johnson 6N2 and the matching VFO I will gladly give to anyone who wants it, and is willing to pick it up (QTH Greenwich, CT).

This is a 6 and 2 meter transmitter from the 50's.
No power supply, though.

Doug Braun
N10WU

----- Forwarded message ends here -----

Dick Dillman
WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Fri May 31 00:21:40 1996
From: michael.moore@24stex.com
Subject: Johnson LP filter
Message-ID: <9605301111.0FQ9000@24stex.com>

Warning, dumb question follows:

I picked up a Johnson low pass filter for my Drake (idiot next door gets his talk shows messed up when I am on 10 mtrs). It has only the Johnson logo on it but no model number. I am guessing that it is a TV-300-LP. I can see that the circuits connected to the two coax connectors are not the same. Which is the input and which is the output or does it make a difference. Also, how are the variable capacitors on each end tuned???

Mike...K6SQJ

P.S. Anyone have a FT-243 or CR-17 crystal for 8400 kcs (50.4 Mcs) that they would sell or trade for another 6-meter freq. ??

From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: "Jack Giehl" <JACKG@s1.xetron.com>
Subject: KWS-1 questions
Message-ID: <41BD345388A@s1.xetron.com>

Dear BA enthusiasts,

Phil had some KWS-1 questions. I have some answers and info for Phil and other KWS-1 owners.

As far as a Collins antenna relay (410 0134 00), I don't have one, but I would also like to find one. I have some 3PDT relays that can be used to make a 110VDC antenna relay and provide the sequence switching necessary for use with the KWS-1. All you need is the relay, a few connectors, and an aluminum box.

>Is there a source for that large style of cartridge fuse used in the
>power supply?

Yep, I have some that are 1.5 amp instead of 1 amp, but they will work (and blow). These are available, not at the Collins "dealer" price of \$20, not requiring you to buy a magazine subscription, but FREE for BA enthusiasts with a KWS-1! Email me.

>In the cabling from the back, there are a couple of leads for "key line
>interlock contacts" that are apparently used in parallel with the leads
>going to the antenna relay coil. Can anyone tell me what these are
>for/do?

Those leads are used to enable transmit only after the antenna changeover relay contacts to close. There is an extra set of contacts on the Collins relay that is used for this purpose.

>Other than the usual BA activities like reforming electrolytics, is there
>anything I should be aware of/watch for in trying to bring one back
>out of hibernation?

I had a problem with the filter capacitor opening for the 110VDC relay. After a few weeks of operation, I turned it on one night and keyed the transmitter. The antenna changeover relay buzzed loudly. The fix was a new electrolytic.

Good luck with the KWS-1. A great transmitter.

Jack

73,

=====

Jack, WB8BFS
jackg@xetron.com Loveland, Ohio (near Cincinnati)

=====

From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: Bill_Carns-R07670Q@email.sps.mot.com
Subject: RE>KWS-1 questions
Message-ID: <"Macintosh */PRMD=MOT/ADMD=MOT/C=US/"@MHS>

Reply to: RE>KWS-1 questions

Some other things to look for when bring one out of hibernation.

1. Plan on cleaning the contacts on the underchassis keying Transmit relay.
The contact that keys the antenna relay is particularly prone to getting carboned up. I like to add a clamp diode to this relay circuit, even though I don't like mods, because the inductive kick back of the antenna relay is eventually going to burn up the under chassis relay and it is very hard to replace, in both senses. A good place to add the diode is at the back feed thru points. Watch the polarity
2. The Tuning and loading (particularly Loading) Inductor to capacitor to dial scale sync should always be checked when a unit has been moved or in storage with unknown treatment. The inductor on the loading side is particularly easy to get off its track and results in much flashing and sparking and potential inductor damage. There is a service bulletin that covers how to do this. Also at the same time check to make sure that the dial scales are still firmly attached to their background gear. They are attached with glue and over time and heat in storage can come loose. Treat these little buggers with care. They are made of brass and pot metal. Never never force one to do anything. If your knob is running eccentrically, it means the pot metal has been stretched which may or may not be fatal.
3. As, I think you mentioned, check to make sure that the filter cap on the AC to DC rectifier circuit for the relay is not leaky. It is this cap leakage that burns up the filter resistor in the primitive little 110 V. DC circuit. I have found this in many of the KWS-1s that I have worked on. The solution is not to put in a higher wattage resistor. Also while your in there, check the selenium for characteristics. If yours is soft, a very nice little transparent fix can be done by going ahead and burning the diode open, not damaging its appearance, and mounting a 1N4007 on the original contacts of the selenium as a terminal strip, putting the diode down in back where it does not show and remounting the "Selenium".
4. Always check the blower motor squirrel cage for freedom of movement and

cleanliness. It should spin relatively freely. The lube is getting very old, and in a lot of cases stiff. This is the major source of burning out motors. I can walk someone thru taking this apart if need be. There are some tricks but it is not bad. I have some of the bearings if you need them.

They are the prelubed sealed type.. When it is working, make sure you have good airflow in the cage. There is no high temp cut off or flow sensor like on 30S-1.

5. Clean all the surfaces of the high voltage transformer AND FILTER CHOKE with alcohol. Dirt from storage is a major source of flash over and high voltage "events". In addition the filter choke is the weak link and is operating right at rated voltage when it was new. This is the highest failure rate component in the set. (A good precaution. Mount this on standoffs - many people do this as a fix after it has failed. I don't like this since it leaves a hot frame for the next unsuspecting owner when he defeats the interlock to work on it. But it serves to relieve the stress on a good unit and I recommend it - the frame is not hot, just above ground -. The problem is that the old potting compound is starting to crack.)

5. Never ever ever use high voltage solid state rectifiers on a KWS-1. This is not a good solution for a burned out fil xmfr. The 3B28 is a good replacement for the 866. The solid state units have lower internal impedance during start up and result in higher initial voltages across the components. e.g. the choke etal. This is aggravated by the, now, 125 V AC line vs 110 V when shipped. Dennis Brothers and I have definitely seen a higher failure rate of high voltage supply components in power supplies using the solid state rectifiers. (by the way, this is not true of the S-Line as long as you put in the voltage dropping resistor.) If you are using 866s, let them warm up extra long - like a day - before you sock the high voltage to them after storage or if they have been out of the socket on their side.

6. I shouldn't need to say this, but I speak from experience. The high voltage fuses are hard to get and normally expensive, but DON'T try and repair one by bridging it with a std glass 3AG type fuse, even as a debug technique. The glass will vaporize along with the fuse link and provide a beautiful plasma which will sustain the fault current. Very expensive in the long run.

Finally, there was a lengthy article written on the care and feeding and some of the history of the KWS-1 (alignment tricks - there is one IF stage that's right on the hairy edge, maintenance etc.) that I would be glad to provide a copy of free if you send a SASE. Also let me know if you need the S.B.s.

Enjoy your KWS-1, when you get it going. You will never get better "Quality" reports.

Best 73s, Bill Carns N70TQ (602) 837-8255 home 413-3826 work
15830 E. Tepee Dr., Fountain Hills, Az. 85268
Moving in 2 weeks. E-mail me first for new address after that.

From boatanchors@theporch.com Fri May 31 00:21:40 1996
From: "Benjamin D. Hall" <bdhall@ghgcorp.com>
Subject: Leakage testing
Message-ID: <31AE3DFF.972@ghgcorp.com>

A while back there was a thread on how to test capacitors for leakage.
Somehow, I cannot find it in the archives nor can I find it on my
harddrive.

Could someone be so kind to repost how to do it? I recently came
across a HV transformer and 1000PIV bridge and thought I'd make a
capacitor checking unit...

Thanks and 73,
Ben
--

=====
+ Benjamin D. Hall, Houston Texas +
+ BDHall@GHGCorp.com BHall@GP802.JSC.NASA.gov +
=====

From boatanchors@theporch.com Fri May 31 00:21:40 1996
From: tlewis@connecti.com
Subject: Meter for SB201
Message-ID: <199605310032.TAA07309@ConnectI.com>

This time I'll try not to SHOUT. Along with the search for the HP24, I'm
also looking for a working meter for a SB201.

Tnx again
Tom

KJ5RY TOM LEWIS
tlewis@connecti.com

From boatanchors@theporch.com Fri May 31 00:21:40 1996

From: Bill_Carns-R07670Q@email.sps.mot.com
Subject: RE>MORE GAS...
Message-ID: <"Macintosh */PRMD=MOT/ADMD=MOT/C=US/"@MHS>

Reply to: RE>MORE GAS...

Stands to reason. Diffusion or outgassing out of materials is a function of pressure differential. Since there is a vacuum (it'self not perfect - therefore some gas) and nothing is perfectly clean and since the materials used to form the internal elements were manufacture at one atmosphere, it follow that over a extended period of time, that the impurities and the materials themselves will outgas into the already not so perfect vacuum. e.g. some aging. This is in fact one of the reasons that they sputtered in the getter material you see on the wall or top of the tube.

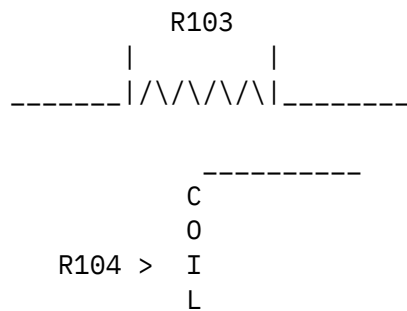
Treating them with a little TLC when you fire them up is usually all that is required. Many recieving tubes do not need this, but is still a good idea, as I said particularly on transmitting and high voltage rectifier tubes. And it will recover some gas if it's not too bad.

Regards, Bill N70TQ of the Collins sickness

From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: jproc@worldlinx.com
Subject: Mystery Component
Message-ID: <Chameleon.4.01.2.9605311134925.jproc@>

Dear BA'ers

I am trying to repair an RA62-C rectifier. On the schematic, in the 12 volt power supply, there is a symbol which I have never come across. Within a dashed box, there is fixed resistor with two vertical lines and what appears to be a relay coil but its labelled as a resistor. The coil is attached across DC output. The resistor is in series with the AC input to the bridge rectifier. Physically, the device is cylindrical in shape about 3" in diameter and about 4" inches long. On the schematic, it is labelled only as SHJ3.



Is this an electromechanical voltage regulator?

Regards,

Jerry Proc, VE3FAB
Radio Restoration Volunteer
HMCS Haida
E-mail: jproc@worldlinx.com
Toronto, Ontario

From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: Bill Meara <w.meara@server1.codetel.net.do>
Subject: Need info from Lafayette catalog
Message-ID: <9605312244.AA13313@server1.codetel.net.do>

While not a Boatanchor, the Lafayette HA 600A was my first receiver capable of tuning the ham bands, so it forms an important part of this Anchorologist's radio memories. It came as a Christmas gift around 1972 or 1973. I paired this receiver up with a DX-40 and later a DX-100 (both of which I wish I had held onto!) I don't remember how I handled the TR/mute/sidetone arrangement.

If anyone has an old Lafayette catalog and can send me any info on this old receiver I'd appreciate it. E-mail descriptions would be great, a copy of the ad would be better. Thanks!

Bill Meara
Unit 5510
APO AA 34041 USA

73 De N2CQR/HI8
Bill Meara
Santo Domingo, Dominican Republic
w.meara@codetel.net.do
or
74537.1100@compuserve.com

"Hispaniola Heaths and Hallis"
HT-37, 2B, HW-101, HQ-100

PGP PUBLIC KEY AVAILABLE ON REQUEST

From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: "Gene S. Katz" <gkatz@motown.lmco.com>

Subject: Packing & Shipping Horrors

Message-ID: <Chameleon.960531135717.gkatz@pc062164.motown.lmco.com>

Name: Gene Katz

E-mail: gkatz@motown.lmco.com

From boatanchors@theporch.com Fri May 31 13:33:38 1996

From: george.rybicki@lerc.nasa.gov (George Rybicki)

Subject: R-392 ?

Message-ID: <v01510102add49e74966c@[139.88.134.25]>

I have a Stromberg Carlson R-392, I think this was the 51 contract. The unit has a label on the front that reports it was "reworked" by Stewart Warner in 1959. I have noticed some of the pictures in the manual I got from Fair Radio don't exactly match the radio, and that one of the tubes, I think it was a 6AJ5, is missing.

The radio works fine that way, but does anyone have the details or diagrams of the "rework"?

Also, I have seen people report running radio on all sorts of votages. What is the consensus on this?

I am using 24 volts, the tubes filaments are rated at 26.5 volts, and the manual says 25-30 volts.

Any suggestions?

Thanks George (KE8YX)

All views expressed here are mine and not those of NASA or the US Government.

George C. Rybicki (KE8YX)
Research Center

Photovoltaics Branch NASA Lewis

21000 Brookpark Rd. MS

302-1 Cleveland, Ohio 44135

From boatanchors@theporch.com Fri May 31 13:33:38 1996

From: Gary Pewitt <gpewitt@execpc.com>

Subject: Re: R-392 ?

Message-ID: <Pine.SOL.3.91.960531073237.23592C-100000@earth>

The power connector has separate pins for filaments and for B+.

You can tie them together and run on voltage from 24 to 30.
I've been told the best way to go is to put 24 on the filaments
for longevity and 28 to 30 on the plates for sensitivity.
I've noticed mine is quite a bit more sensitive with 28 volts
than with 24. I haven't tried splitting the voltage yet.
Your mileage may vary. 73 Gary

On Fri, 31 May 1996, George Rybicki wrote:

> I have a Stromberg Carlson R-392, I think this was the 51 contract. The
> unit has a label on the front
> that reports it was "reworked" by Stewart Warner in 1959. I have noticed
> some of the pictures in the manual I got from Fair Radio don't exactly
> match the radio, and that one of the tubes, I think it was a 6AJ5, is
> missing.
>
> The radio works fine that way, but does anyone have the details or diagrams
> of the "rework"?
>
> Also, I have seen people report running radio on all sorts of voltages. What
> is the consensus on this?
> I am using 24 volts, the tubes filaments are rated at 26.5 volts, and the
> manual says 25-30 volts.
> Any suggestions?
>
> Thanks George (KE8YX)
>
> All views expressed here are mine and not those of NASA or the US Government.
>
> George C. Rybicki (KE8YX) Photovoltaics Branch NASA Lewis
> Research Center
> 21000 Brookpark Rd. MS
> 302-1 Cleveland, Ohio 44135
>
>
>
>

From boatanchors@theporch.com Fri May 31 13:33:38 1996
From: "Joseph W. Pinner" <kc5ijd@dns1.net-connect.net>
Subject: Re: R-392 ?
Message-ID: <199605311349.IAA14199@dns1.net-connect.net>

>The radio works fine that way, but does anyone have the details or diagrams
>of the "rework"?
>
>Also, I have seen people report running radio on all sorts of voltages. What

>is the consensus on this?

Well, the rework simply means that the set was rebuilt in 1959 and restored to like new condition. Any MWO (modification work orders) were applied - that means circuit changes which the military decided was necessary to correct a problem found with the set. I don't know of anyplace to find a list of MWO - though the TM's do normally list any circuit changes made prior to their date of publication. You need to have a TM for this set. I think that the Louisiana Military Museum where I volunteer may have a spare. Cost would probably be \$ 20 - 25 shipped.

Also, I run my R-392 with 24 V on the filaments and 28-30 V on the plates. It does work better that way.

73

Joseph W Pinner
Lafayette, LA
KC5IJD
EMail: kc5ijd@net-connect.net or kc5ijd@aol.com

From boatanchors@theporch.com Fri May 31 00:21:40 1996
From: MAB@delphi.com
Subject: Radio Shack DSP Comm Noise Reduction System
Message-ID: <01I5BXHJQCQQ90MYFE@delphi.com>

Saw last night's post about this unit (sorry, don't remember the sender), so I went to my local Radio Shack, and they had two of 'em. The model number is 21-543 and the close-out price is \$34.97.

The unit itself is designed for mobile use and is 12VDC powered. It is basically, an audio bandpass filter with preset selectable bandwidths and separate processing modes for AM, SSB, and CW. It has a built-in speaker (R-390/A users looking for an amplified speaker, take note) and can deliver up to 6W into an external speaker.

I plan to fire it up this weekend, but, for 35 bucks, it's probably not a bad deal. This is a close-out, so get 'em while they last. Mike

```
/-----\  
| Michael A. Burke          THIS SPACE |  
| Synetics Consultants     FOR RENT   |  
| PO Box 439, 11 Scenic Dr  REAL CHEAP! |  
| Westminster, MA 01473    |  
| 508-874-0908             | /==\ |  
| mab@delphi.com           {}(0|0){}  |
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|-----oo00-()-00oo-----|
|
| Do unto others as they would be done unto |
and practice random acts of kindness.

From boatanchors@theporch.com Fri May 31 00:21:40 1996
From: Richard Post <POST@ouvaxa.cats.ohiou.edu>
Subject: RCA Chanalyst SW converter
Message-ID: <A3199ZWICOT0JS*/R=OUVAXA/R=A1/U=POST/@MHS>

Keepers of vacuum under glass,

A W8 friend is looking for a schematic on an RCA Chanalyst Short Wave Converter. Tube complement is 6AC7, 6SJ7, 6SA7, and 6X5.

No, this is not the RCA Rider Chanalyst, a nice piece of vintage test gear for which I have the Meissner equivalent. This is indeed a shortwave converter. Covers 1.6 to 80 Mcs. Output is 1.5 Mcs.

There is a brief mention in an ad on page 121 in CQ Feb 1958 from Barry Electronics along with a bunch of other older miscellanea. I have no model number and don't know if it ever had one.

I have checked my Rider's through volume 20 and have come up dry. Have only found a similar device schematic (The RME DM-30X in Rider 11)

If we come up dry again, we will tackle this thing barefoot although it has a few components missing. I have not seen the unit but my friend said some of the capacitors and possibly other pieces are missing. I am assuming the tubes are RF amp, Mixer, Oscillator, and rectifier respectively.

Anybody have one these and/or schematic?

Thanks,

Rich <rpost1@ohiou.edu>

From boatanchors@theporch.com Fri May 31 00:21:40 1996
From: Jim Heaton <jheaton@ic.net>
Subject: Re: Re Rebuilt Tubes
Message-ID: <31AE2527.34E8@ic.net>

Thanks to all for this discussion so far.

FRANKK6NL@aol.com wrote:

> In glass tubes it

> would be impossible to to hide the rebuild from view.

I wasn't worried about making them look new, just perform well and have a long useful life. From other threads it also sounds like any failure with the elements damaged would be too difficult. But what about this variation on one suggestion already given:

Cook the gassy tube with no load as was suggested, then create a small hole while under a hard vacuum to exhaust the gas. Seal under vacuum. If one could do this (we have great vacuum chambers available, but I can't imagine how to make or seal a hole while it is running), would the tube perform as new?

-Jim

From boatanchors@theporch.com Fri May 31 13:33:38 1996

From: Tom.Daley@530.gigo.com (Tom Daley)

Subject: relay: fs: stuff !!

Message-ID: <91f_9605310715@gigo.com>

please reply to the fello below, not me 73

Message #196 - HAM Radio For Sale

Date: 05-29-96 19:53:32

From: TIM METRO

To: ALL

Subject: stuff for sale goodies"

Hello I have the following for sale....

-- deleted solid state crapola --

Electo-voice Mecury Mic , good ole am mic \$85.00

Astatic 10c , another good am and ssb mic \$85.00

Viking Valaiaant transmitter , looks good and worked good up to about two months ago... has shorted cap... in high voltage supply , bought the caps but have not put in... not much of a problem \$400.00 will thorough in \$20.00 bucks worth of new caps I picked up...

Eico tube tester.. tests tubes for all conditons not just emission
excellent tester like new \$ 75.00

Pair of ax9909 tubes also know as 6083 for the WRL GLOBE CHAMP
300/300A/350... (TRY TO FIND THESE RARE JOBS) LIKE NEW WITH FULL
EMMISSION \$85.00 EACH...

KNIGHT KIT AM BROADCAST TRANSMITTING KIT , WILL XMIT ON ANY AM BROADCAST
FREQ. 540 TO 1620 KCS... WORKS EXCELLENT WITH ORIGINAL MANUAL COLLECTORS
ITEM MAKE REASONABLE OFFER PLEASE...

HAVE for sale an excellent Hallicrafters SX 71 receiver .. looks good
and works like new...\$175.00
or trade for something you may have ... but prefer to sell .. but can't
hurt to ask I just may be interested in what you have ..

CALL TIM AT 1 517 793 3426

Origin: LIGHTHOUSE : 517-686-2013 (1:239/170)

--

: Fidonet: Tom Daley 1:203/530 .. speaking for only myself.

: Internet: Tom.Daley@530.gigo.com

From boatanchors@theporch.com Fri May 31 00:21:40 1996

From: "TOM N LAIRD 5-5777" <TL39597@deere.com>

Subject: RTTY parts

Message-ID: <DACDXX21.TL39597.040530150096151FDACDXX21@TCP30.DX.DEERE.COM>

Date: 05/30/96

From: TOM N LAIRD 5-5777

To:

Subject: RTTY parts

TL39597 - DACDXX21

INTERNET - DACDXE01

Call Leo Williams K9MVJ with your needs. He may be able to help. Hes not in
business, he just has a garage full of the stuff. 309-799-3359. Please call
him directly and save this phone number if you think you may get interested.

Do not reply to me.

Tom Laird WC9M Moline,Il
tl39597@deere.com

From boatanchors@theporch.com Fri May 31 00:21:40 1996
From: lblaske@pclink.com (Lee Blaske)
Subject: Sales taxes at hamfests?
Message-ID: <v02130503add39eebf853@[204.72.134.38]>

Gang,

I know a lot of you really get around, and have attended and participated in hamfests all over the country. I'm always interested in the reports on boatanchor sales at hamfests near and far. In fact, I believe our hobby would seriously be curtailed if we weren't able to shop for boatanchors and all necessary parts and accessories at hamfests.

I'm writing to alert you to an ever growing threat to hamfests in a number of states. In a quest to increase revenues, many states have been getting much more aggressive about sales tax collection in recent years. Some states have been hit harder than others, to be sure, but the threat is growing. I've heard reports of hamfests in a few states being reduced to a mere shadows of what they once were, because of pressure from sales tax collection.

My home state, Minnesota, is doing its best to kill off hamfests. Right now, they're mainly going after retailers.

I'm on the committee for the largest hamfest in Minnesota. In years past, we used to get a lot of retailers from outside Minnesota (AES, Burghardt and Surplus Sales of Nebraska, for example). Having a number of retailers really contributes to the health of a show. Hamfest attendees get the feeling that the retailers are going head to head to offer the best prices, and as a result, a lot of business is done. If only one retailer shows up (the local ham store), there's no competition, and no excitement. As a result, sales are slow. This makes for a real dud of a hamfest. Indirectly, this has quite an effect on the liveliness of a hamfest's flea market, and a big effect on whether any given hamfest will continue.

Here's what the state of Minnesota is doing to make sure that out of state retailers never come back: They've declared any retailer who comes to a hamfest in Minnesota as having established a "retail presence" here. After having established a retail presence, that dealer is responsible for collecting Minnesota sales tax from anyone in the state of Minnesota who places an order by mail or phone. Rightly or wrongly, a lot of people use mail order to avoid sales tax. Since a dealer's status permanently changes after they've attended a hamfest in Minnesota, this effectively keeps them from ever setting foot in our state.

I think it's totally fair for out of state retailers to collect appropriate

sales taxes when they're actually at the hamfest, but totally changing their sales tax collection status seems a bit extreme.

Theoretically, all Minnesota residents are responsible for paying use tax on anything they purchase out of state (over \$750.00 per year), but very few people do. Minnesota doesn't aggressively enforce use tax collection. It does, however, put the screws to out of state dealers. Politically, I'm sure this is much more popular.

So, that's our sad tale of woe here. It's really changed the make up of hamfests in this state. In the past year, one large hamfest has ceased to exist.

I have, however, heard stories of things being much worse in other states. Going after retailers is one thing, but I've gotten reports of states going after flea market people.

So far, Minnesota hasn't done this. We've got an occasional sales law, although to my knowledge, it's never been hamfest tested. Indeed, a lot of flea market people have all the trappings (fixtures, signs, etc.) of being small retailers, and hit every show in the area. To my knowledge, we've never had a sales tax inspector show up at a hamfest in Minnesota. Maybe the worst is yet to come!

Anyway, it seems to me that a lot of hamfests could be headed for some serious trouble. Fewer, and smaller hamfests will really put a crimp in our BA collecting hobby.

I'm trying, in a small way, to fight against my state's present sales tax laws regarding hamfests. In order to do this, I'd like to get as much information as possible from those of you on the list.

As I said earlier, I know a lot of you guys really get around. Please be my eyes and ears. Please send me any horror stories or interesting experiences you've had regarding sales tax collection at hamfests. I really want to get a sense of what's happening across this country.

Although this subject has (and will have) a great impact on our BA hobby, I realize it's not the sort of continuing discussion that Jack would like to have clogging up the list. So, if your response is lengthy, and not particularly suitable for the list, please send it directly to me. In fact, please send a copy of all responses to me so I'll be sure not to miss them.

If any of you have a particular personal interest in this matter, and would like to see all the responses, let me know and I'll forward them to you.

Lee

Lee Blaske 73 de AA0EF
Keynote Music
lblaske@pclink.com
Deephaven, Minnesota
"When all think alike, then no-one is thinking." -Walter Lippman-

```
>I need a source for some HV caps for my SB610
>
>What I need are .1 uf 1200v x 2
>and .15 uf 1600 v x1
```

I paralleled two .05 uf 1600 V Orange Drops I purchased at AES and used this combo for the .15 1600 cap in my SB-610. Seems to work OK despite the lower capacitance.

Joseph W Pinner
Lafayette, LA
KC5IJD
EMail: kc5ijd@net-connect.net or kc5ijd@aol.com

>

>I paralleled two .05 uf 1600 V Orange Drops I purchased at AES and used
>this combo for the .15 1600 cap in my SB-610. Seems to work OK despite
>the lower capacitance.

>

>You can do the same sort of thing for the .1 1200 caps as well.

>

>

Why not use 3 to get the original .15 Mf value?

From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: "Joseph W. Pinner" <kc5ijd@dns1.net-connect.net>
Subject: Re: SB-610 caps
Message-ID: <199605311935.0AA21097@dns1.net-connect.net>

>Why not use 3 to get the original .15 Mf value?

The size of the caps makes things a little tight in my set,

the caps are not cheap, and

the value is not critical anyway.

73

Joseph W Pinner
Lafayette, LA
KC5IJD
EMail: kc5ijd@net-connect.net or kc5ijd@aol.com

From boatanchors@theporch.com Fri May 31 13:33:38 1996
From: Merv Schweigert <k9fd@htc.net>
Subject: Shipping
Message-ID: <9605311735.AA21539@ns.htc.net>

I see a few blurbs about mailboxes and other shipping places.
I hate to say but am in the middle of like story now, had purchased
a dx40 from a canadian ham and he took it to mailboxes in canada. They
wrapped it in one wrap of bubble and put it in a box with peanuts,
needless to say it doesnt resemble a dx40 any more. I called ups and
was told they would pick it up, 2 weeks later nil so called again.
This time the person said that claims under 100 bux were just paid with
out seeing the damage and the check was sent to the shipper. SO now
I'm out the shipping the rig and the other guy gets paid twice. So
far he doesnt want to come to the phone again either. SO beware not

only of the seller but the shipper as well.

K9FD Merv

From boatanchors@theporch.com Fri May 31 13:33:38 1996
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: Re: Shipping
Message-ID: <9605311749.AA12129@syseng1.se.melpar.esys.com>

I realize that this is eminently impractical for many BAs, but in buying Vibroplex bugs from non-collectors I **ALWAYS** send along a set of instructions on packing, a little plastic baggie for the thumbpiece, knob, and weights, and a wire tie to tie the vibrating arm down. I include these items in the envelope with the check. I also always discuss packing during the negotiation phase so that the seller understands the importance of doing a good job in packing the item. In addition, on at least two occasions I have sent a double-box packing set complete with packing material to the seller at my expense, to ensure that the bug was correctly packed and well-protected.

To some, these measures may seem like a little bit of overkill. However, a bug which arrives safely is a valued addition to my collection, while one which arrives all busted up is essentially useless. IMHO, "negotiation" is on the **SELLING** price for the instrument; I never "negotiate" the shipping, I pay whatever it takes to ensure safe arrival. When negotiation **INCLUDES** shipping, the seller may scrimp on the latter to maximize his/her "take."

Just my \$0.02 worth.....

73,

Paul, K4MSG

From boatanchors@theporch.com Fri May 31 13:33:38 1996
From: don merz <71333.144@CompuServe.COM>
Subject: Shipping BAs
Message-ID: <960531170826_71333.144_DHB37-2@CompuServe.COM>

The whole question of shipping BAs has never had a good answer. Actually,

it's going the other way. I find that shipping BA's is hazardous to their health. Considering the irreplaceable piece of history that each one represents, I get really uncomfortable about packing. UPS rates have gone sky high too. Add in Mailboxes' charges and 'sky high' becomes 'exorbitant.' Our hobby has always been somewhat limited by geography. But I think that will get much worse if these trends continue.

Time to do some more work on the matter-composition and decomposition machine...honey, I shrunk the BC610!

Thanks.

Don, N3RHT

71333.144@compuserve.com

From boatanchors@theporch.com Fri May 31 13:33:38 1996

From: bill@skeeter.frco.com (William Hawkins)

Subject: Re: Shipping BAs

Message-ID: <9605311751.AA04192@skeeter.frco.com>

Well, 'sky high' is relative. A few years ago, I wanted a specific radio in the worst way. One was advertised, but a call revealed that it was 'collector quality' and my offer of \$400 was not the \$1200 he wanted. So when one was advertised for \$150, "local pickup only", I paid a local (to the seller) air freight company \$150 to pick up the set, crate it, and deliver it to a Mpls (that's Minneapolis) air freight warehouse. At the time, I thought it was a good deal.

Bill Hawkins bill@skeeter.frco.com

From boatanchors@theporch.com Fri May 31 00:21:40 1996

From: TPHAAK@ccmail.monsanto.com

Subject: SHIPPING NITE MARE

Message-ID: <0031400001232266000002*@MHS>

Group,

If and when you ever decide to ship a boatanchor and you make the decision to ship via Mail Box Etc. or some version of one you had better monitor the packing process.

I recently received a radio damaged and the problem will be collecting on damages. The radio was packed with one layer of bubble on four of the six sides. The speaker was not packed in anything and to make

matters worse laid face against one of the exposed sides of the receiver. The box was filled with peanuts and shipped via UPS, all 70 pounds of it. By the way MBE ships exclusively UPS. Dents, scratches, 2 broken knobs with one sheered off from the inside resulted.

Now MBE says they couldn't have packed it that way since they are "trained by UPS" but more investigation proved that a "new hire trainee" did the packing. Seems she hadn't been to the big UPS packing school yet.

Next kick in the A-- is that since it wasn't packed correctly UPS is saying they won't honor the insurance even though they are in bed big time with MBE for all of MBE's business.

This leaves me with trying to settle with MBE which are franchised and run by mom and pops. This particular "mom" said they use discarded packing material "donated" by people. Sheeeessssee. And then they had the nerve to charge almost \$30 for that donated packing!!!!

I have heard of some wonders in packing expertise by MBE but to this day I will put my resources and common sense up against any of them regardless of their training and accept the consequences.

Summary, if you must use MBE are anyone like them monitor the process and also understand the insurance limitations. Better yet do it yourself.

The book isn't closed on MBE/UPS yet, not until I get my pound of flesh.....

Tim WA0TSY

From boatanchors@theporch.com Fri May 31 00:21:40 1996
From: "Grant Youngman" <nq5t@gte.net>
Subject: Re: SHIPPING NITE MARE
Message-ID: <199605310329.WAA23280@uro.theporch.com>

> If and when you ever decide to ship a boatanchor and you make the
> decision to ship via Mail Box Etc. or some version of one you had
> better monitor the packing process.

This outfit has perhaps one of the WORST reputations anywhere for packing. They are simply not geared or trained for it, don't have the materials and equipment, and are basically a hack shop.

Locally here in North Dallas, another outfit which I have used, The Packaging Store, actually does the "larger" work for MBE on a contract basis. The Packaging Store, while also a franchise, is equipped for the building of custom double wall corrugated containers, wooden crates, injected foam packing, custom bracing carpentry, etc. In fact, the entire back of the store is essentially a large workshop with all the accoutrements of a professional shipper. AND ... they have no mailboxes :-)

I'm sure the quality of the work is also a function of the people running the operation, but at least they are not in business as no more than a couple of wraps of plastic bubble and some foam peanuts.

I recently used them to injection foam pack some larger BA's for shipment, and the work was totally professional. Everything arrived in perfect condition via UPS ground, with no damage, and no packing related screw-ups.

Grant/NQ5T

Grant Youngman -- NQ5T
nq5t@gte.net
<http://home1.gte.net/nq5t/index.htm> - Vintage Ham Radio

Beautiful downtown Double Oak, TX

From boatanchors@theporch.com Fri May 31 13:33:38 1996
From: Steve Ellington <n4lq@iglou.com>
Subject: Re: SHIPPING NITE MARE
Message-ID: <Pine.GS0.3.93.960531092557.15082A-100000@iglou>

I always purchase my own packing material. Check the yellow pages. Usually, someone sells those foam peanuts and boxes. You may be able to obtain them from Mailboxes inc but at a greatly inflated price.

All shipping depots charge. Some, like our local grocery store (WinDixie) makes it look like they are doing it for free! I even asked the mgr. He said they do it as a favor for their customers. Balderdash! Check their rate carefully and compare it to the UPS web page automatic rate calculator. You'll see that they really stick it to you.

Mailbox inc. really jacks up the cost of shipping. Don't bother with them unless you have no choice or need to ship a load of pillows.

Steve Ellington N4LQ@IGLOU.COM Louisville, Ky

From: bgraham@tecnet1.jcte.jcs.mil
Message-ID: <199605311339.IAA28965@uro.theporch.com>
Subject: Need source of HV caps

I need a source for some HV caps for my SB610

What I need are .1 uf 1200v x 2
and .15 uf 1600 v x1

No luck with any of the big places like Newark, mouser,
Allied or AES.

thanks

Bill

N5LMX/DA1WG
bgraham@tecnet1.jcte.jcs.mil

From boatanchors@theporch.com Fri May 31 13:33:38 1996
From: Walt Novinger <waltn@earthlink.net>
Subject: Re: SHIPPING NITE MARE
Message-ID: <2.2.32.19960531162450.00696c5c@earthlink.net>

At 09:37 PM 5/30/96 -0500, you wrote:

> Group,
>
> If and when you ever decide to ship a boatanchor and you make the
> decision to ship via Mail Box Etc. or some version of one you had
> better monitor the packing process.
>

My XYL and I took our R-390A to the local UPS store (NOT a MBE, etc.) to have it packed for shipment to Rick Mish. UPS is now testing a system called "VersaPack" that is a foam-in-place system that completely surrounds the item with dense urethane foam encased in plastic. They charge (here in SF, anyway) \$10 for the foam plus reasonable prices for the boxes they'll sell you (double-thick, reusable). Call your local UPS depot and check to see if they have been fitted with the machine and the best hours to go to have it done. the beauty of this system is that, since they supply the box and the

packing, if there's a problem you should have much less hassle with them over damages. We'll never ship another large BA any other way again.

Walt

=====

Walt Novinger	Real Radios Keep You Warm At Night!
Collector of hollowstate communications receivers and test equipment	
waltn@earthlink.net	wnovinger@shl.com
	CI\$: 73340,2015

From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: jcreid@CCGATE.HAC.COM
Subject: Ta ta for now...
Message-ID: <9604318335.AA833579064@CCGATE.HAC.COM>

Gang,

Shutdown time has arrived. We're leaving on a trip to the Midwest for the next three weeks, so I'll be out of touch and I'm postponing my mail. For those people that I owe money to, the checks are in the mail. For those waiting for manual copies, I'll take care of it as soon as I get back. I just plain ran out of time. Take care and keep the tube filaments glowing.

73

-Jim N6SVS
jcreid@ccgate.hac.com

From boatanchors@theporch.com Fri May 31 13:33:38 1996
From: bill@skeeter.frco.com (William Hawkins)
Subject: This 'n that
Message-ID: <9605310510.AA03053@skeeter.frco.com>

Now that the mail storm has died down after the ISDN fiasco, here's a few observations:

Fair Radio's 96 catalog back page lists the AN/PDR-63 Radiac set for a mere \$175, used. Those who bought them from Axman for \$65 should now be able to sell them for twice what they paid for them, which qualifies you to start a newsletter on how to get rich quick by buying boatanchors low and selling high.

There was a pair of articles that arrived here back-to-back saying in one not to worry about overseas collectors running off with all of our boatanchors because there were so many of them that they are not rare.

The next article talked about the slim pickings at hamfests. Myself, I've only found one BA at a hamfest, but that was an R-389.

Then an article said that it was OK to gut old test equipment because it was old fashioned - kinda like sending an old horse to the glue factory. I resolved to find some old BA, made by one of the H's or an N or even a C, and gut it to get some resistors I need for some old test equipment. I happen to think that those old HP rack mount generators are classics, not to mention Tek scopes and GR gear.

Finally, there's been some stuff that's way off the subject, so here's my contribution. How come astronauts on the shuttle Endeavour sounded like a weak SW signal when they've got the bandwidth for color video? Does somebody think that we won't believe they're actually in space if the sound is clear? Or is it just tradition? [Please don't reply to the list.]

Regards,
Bill Hawkins bill@skeeter.frco.com

From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: Michael Sullivan <michaels@kc2kj.k2nesoft.com>
Subject: Universal View Format.....
Message-ID: <31AF016C.3FC6@kc2kj.k2nesoft.com>

There was some discussion earlier about universal digital viewer for schematics and manuals. A company called NoHands Software made a product called "Common Ground" that seems to work pretty well; Adobe has their Acrobat technology that seems to be a little more popular. Since the Adobe Acrobat readers are common, is there interest in anyone on the list to try some experiments at digitizing some manual schematics and running them through both Common Ground and Acrobat to see how well the transfer works?

--

Mike Sullivan - michaels@kc2kj.k2nesoft.com
<http://kc2kj.k2nesoft.com:8080/Merchantville>

From boatanchors@theporch.com Fri May 31 20:14:29 1996
From: douga@rosevax.rosemount.com (Doug Arntson)
Subject: Value of AT-1
Message-ID: <9605311920.AA04636@warthog.frco.com>

Greetings,

I recently saw a mint Heath AT-1 for sale for \$125, original knobs meter, etc.

What is the going market value ?

Thanks,

Doug
WB0HRX

From boatanchors@theporch.com Fri May 31 00:21:40 1996
From: "Jack Giehl" <JACKG@s1.xetron.com>
Subject: Wanted: Simpson VU meter
Message-ID: <404F34B601B@s1.xetron.com>

Dear BA Enthusiasts,

I am restoring a Gates Stereo Yard radio station console that I picked up from Terry O'Laughlin. One of the VU meters has a bad movement, and I am looking for a replacement.

The meter is Simpson Wide-View Style meter model 1347. It is square, and measures 3.25" on a side, though the meter is called a 3.5 inch size. An A or B scale is fine, and a damaged case is ok also, as I have a good quality case and cover.

Thanks, Jack

73,

=====
Jack, WB8BFS
jackg@xetron.com Loveland, Ohio (near Cincinnati)
=====

From boatanchors@theporch.com Fri May 31 00:21:40 1996
From: Merv Schweigert <k9fd@htc.net>
Subject: Wiring
Message-ID: <9605302153.AA32480@ns.htc.net>

Hello to all, I am new to the BA group but been fooling with BA's for 35 years I guess. Getting nostalgic in my old age (51) and getting back into old gear. At Dayton I picked up a new in the box bc 453-b that I would like to use on 1f this winter, please does someone have the info for the wiring connections to it, the b+ and filament requirements, and the little conversion that puts a switch, jack and pot on the front? I did it 30 years ago but have forgotten. Sure appreciate any help.

Also trying to find some old Heath gear for use and display, looking for maybe a dx20, dx35, or dx40. May even go as far as a dx60.

Need the front to be very nice no mods, and good cabinet. Working is not as great as a concern as long as its all there and good. Price not to be unreasonable for retired fixed income OM. hi hi. I am retired by the way.

Sure is great to read all the interesting projects going on and the BA is by far the best list I can find. Much better than the run of the mill internet junk out there, thanks Jack.

Also collect old crystals any holder style , trying to find the different manufacturers during ww2 etc, and keys , bugs of course. If ya got any thing like this laying around let me know via e-mail, snail-mail or tele as follows:

k9fd@htc.net

Merv Schweigert 9694 s. Prairie road Red Bud IL 62278
618-282-3953

Thanks guys 73 de Merv K9FD

From boatanchors@theporch.com Fri May 31 13:33:38 1996

From: Merv Schweigert <k9fd@htc.net>

Subject: Re: Wiring

Message-ID: <9605311712.AA20917@ns.htc.net>

At 10:54 AM 5/31/96 -0500, you wrote:

>> At dayton I picked up a new in the box bc 453-b that
>>I would like to use on lf this winter, please does someone have the info
>>for the wiring connections to it, the b+ and filament requirements, and
>>the little conversion that puts a switch, jack and pot on the front?

>

>Hi Merv -

> Hope you don't get any hate mail from this post, but you should be aware
>that there's a definate bias in this group against hacking NIB ARC sets.
>Lots of us did this 30 years ago, and, as a result, there's precious
>few originals left! Chances are one of the military collectors on the list
>will have a BC-453 that's already had these modifications done to it and
>will sell it to you at a reasonable price.

> Best wishes,

>John michael@ecs.umass.edu

>

Thanks John for the insight. I guess I'd be more than happy to work up a trade with a collector who wants a unmodified arc5. Yes I am guilty of making many pieces out of good arc5's years ago, SO let me re-post this another way.

I have a new in the box, the box was open, bc-453-b made by Colonial Radio Corp. #9935 Aluminum finish, slightly dusty from open

box, no dynamotor on it that is up for trade for one in like condition that is already modified for use, or in a short time it will join its ancestors in the arc5 modified world to be used as a lowfer receiver this winter. If you want to save it let me know or forever hold the flames.
Thanks 73 de Merv K9FD

From boatanchors@theporch.com Fri May 31 00:21:40 1996
From: Bill_Carns-R07670Q@email.sps.mot.com
Subject: WTB KWM-2A Rnd
Message-ID: <"Macintosh */PRMD=MOT/ADMD=MOT/C=US/"@MHS>

	Subject:	Time:2:37 PM
OFFICE MEMO	WTB KWM-2A Rnd	Date:5/30/96

Would like to locate a very very nice, Not rejuvenated, original Collins KWM-2A. Prefer late w/ teflon wiring, but let's talk.
Thanks
Bill N70TQ